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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2816
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code1	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4910794		1990-03-20	MAHANY	
	2	4931250		1990-06-05	GRESZCZUK	
	3	4939731		1990-07-03	REED ET AL.	
	4	4991184		1991-02-05	HASHIMOTO	
	5	5204876		1993-04-20	BRUCKERT ET AL.	
	6	5235614		1993-08-10	BRUCKERT ET AL.	
	7	5533004		1996-07-02	JASPER ET AL.	
	8	5577087		1996-10-19	FURUYA	

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	9	5579306		1996-11-26	DENT	
	10	5649290		1997-07-15	WANG ET AL.	
	11	5697053		1997-12-09	HANLY ET AL.	
	12	5802046		1998-09-01	LOGAN	
	13	5943327		1999-08-24	MADEMANN ET AL.	
	14	5950124		1999-09-07	TROMPOWER ET AL.	
	15	6005856		1999-12-21	JENSEN ET AL.	
	16	6028852		2000-02-22	MIYA ET AL.	
	17	6073025		2000-06-06	CHHEDA ET AL.	
	18	6097704		2000-08-01	JACKSON ET AL.	
	19	6161013		2000-12-12	ANDERSON ET AL.	

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	20	6212176		2001-04-03	ANDERSSON ET AL.	

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U.S.PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

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	1	0353759	EP		1990-02-07	NORAND CORPORATION		☐
	2	0887947	EP		1998-12-30	NEC CORP.		☐
	3	01-122242	JP		1989-05-15	NEC CORP.		☐
	4	01-170147	JP		1989-07-05	NEC CORP.		☐
	5	03-060251	JP		1991-03-15	NIPPON TELEGRAPH AND TELEPHONE CORP.		☐

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	6	57-159148	JP		1982-10-01	FUJITSU LTD.		☐
	7	59-039150	JP		1984-03-03	FUJITSU LTD.		☐
	8	63-184420	JP		1988-07-29	NIPPON TELEGRAPH AND TELEPHONE CORP.		☐
	9	63-252047	JP		1988-10-19	NEC CORP.		☐
	10	462292	SU		1975-02-28	MAGAZANIK		☐
	11	1585902	SU		1988-11-05	SALIKOV ET AL.		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	ACAMPORA, "The Use of Resource Sharing and Coding to Increase the Capacity of Digital Satellites," IEEE Journal on Selected Areas in Communications, Vol. SAC-1 No. 1, January 1983.	☐
	2	ACAMPORA, "A Wireless Network for Wide-Band Indoor Communications," IEEE Journal on Selection Areas in Communications, Vol. SAC-5, June 1987.	☐
	3	Buchholz et al., "Real-Time Management of Radio Turnaround in a TDMA/TDD System" MO-LA Technical Developments Volume 22 June 1994	☐

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	4	FALAHATI, et al., "Implementation of Adaptive 5400 bit/s Modem Frequency Selective HF Radio Links", Electronic Letters: An International Publication, vol. 28, no. 13	☐
	5	FIFER, et al., "The Low-Cost Packet Radio," Proceedings of the IEEE, Vol. 75, No. 1 January 1987	☐
	6	FILIP, et al., "Adaptive Modulation as a Fade Countermeasure. An Olympus Experiment," International Journal of Satellite Communications, Vol. 8, 31-41 (1990)	☐
	7	FISCHER et al., "Wide-Band Packet Radio for Multipath Environments", IEEE Transactions on Communications, vol. 36, no. 5, pp. 564-576	☐
	8	FISCHER et al., "Wide-Band Packet Radio Technology", IEEE Transactions on Communications, vol. 75, no. 1, January 1987	☐
	9	FORNEY, et al., "Efficient Modulation for Band-Limited Channels", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. sac-2, no. 5, September 1984	☐
	10	GOODMAN, "Embedded DPCM for variable bit rate transmission", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-28, no. 7, July 1980	☐
	11	HEEGARD, et al., "A Microprocessor-Based PSK Modem for Packet Transmission Over Satellite Channels", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-26, no. 5, May 1978	☐
	12	HENRY, et al., "HF Radio Data Communication: CW to Clover", Communications Quarterly, Spring 1992, pp. 11-24	☐
	13	HIRADE, et al., "Digital Transmission Technology for Mobile Radio Communication,"	☐
	14	JACOBSMEYER, "Adaptive Trellis Coded Modulation for Bandlimited Meteor Burst Channels", IEEE JOURNAL ON SELECTE AREAS IN COMMUNICATIONS, vol. 10, no. 3, April 1992	☐

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	15	JENTZ, "Method to conserve power in subscribers using C/I+N algorithm", Motorola Technical Developments, vol. 21, February 1994.	☐
	16	KHAN, et al., "Adaptive Forward Error Control for Digital Satellite Systems," IEEE Transactions of Aerospace and Electronics Systems, Vol. AES-21, No. 4, July 1985	☐
	17	KNISELY et al., "CDMA2000: A Third_Generation Radio Transmission Technology", BELL Labs Technical Journal, BELL Laboratories, US, vol. 3, no. 3, 1 July 1988 (1988-07-01)	☐
	18	LIN, et al., "An Adaptive ARQ Scheme Using Pragmatic TCM", Singapore ICCS 1994 Conference Proceedings, vol. 2, 14-18 November, pp. 649-652	☐
	19	MILSTEIN, et al., "Performace of Meteor-Burst Communication Channels", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICAIONS, vol. sac-5, no. 2, February 1987	☐
	20	MURPHY, "Telecommunications Talk," Creative Computing, January 1985, vol. 11, No. 1, pp. 16-22	☐
	21	OETTING, "An Analysis of Meteor Burst Communications for Military Applications", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-28, no. 9, September 1980	☐
	22	PETIT, "CLOVER II: A Technical Overview, AARL Amateur Radio," San Jose, California, September 27-29, 1991	☐
	23	PETIT, "The "CLOVERLEAF" Performance-Oriented HF Data Communication System," 9th Computer Networking Conference	☐
	24	RISTENBATT, et al., "Performance Criteria for Spread Spectrum Communications", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-25, no. 8, pp. 756-763, August 1977	☐
	25	Rozenstrauch et al., "Control Channel Interference Detection INS TDMA Systems with Frequency Re-Use", Motorola, Inc, Technical Developments, November 1995	☐

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	Attorney Docket Number	990482

	26	SALZ, et al., "An Experimental Digital Multilevel FM Modem", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-14, no. 3	☐
	27	SMARTMODEM 1200B HARDWARE REFERENCE MANUAL, HAYES MICROCOMPUTER PRODUCTS, INC.	☐
	28	STEELE, "Deploying Personal Communication Network," Proceedings Wireless 91, The Third National Seminar & Workshop on Wireless Personal Communications, pp. 1-14	☐
	29	STEELE, et al., "Variable Rate QAM for Data Transmission Over Rayleigh Fading Channels," Proceedings Wireless 91, The Third National Seminar & Workshop on Wireless Personal Communications, pp. 1-14	☐
	30	THOMAS, et al., "A New Generation of Digital Microwave Radios for U.S. Military Telephone Networks," IEEE Transactions on Communications, Vol. COM-27, No. 12, December 1979	☐
	31	THOMSPON et al., "Analysis of diversity reception improvements in spread spectrum receivers", Proceedings of the IEEE 3rd International Symposium on Spread Spectrum Techniques and Applications, vol. 2, pp. 455-459, 4-6 July 1994, Oulu, Finalnd.	☐
	32	Tyson, Tom: "A Method for Improved Site Selection in a Cell-Based TDMA Fail-Soft System" MOTOROLA Technical Developments; Dec 1, 1997, pp. 194-195	☐
	33	VOS, "Minimum Distance Channel Quality Metric", Motorola, Inc., Technical Developments, Volume 20, October 1993, pp. 8-9	☐
	34	WEBB, "QAM:The Modulation Scheme for Future Mobile Radio Communications," Electronics & Communication Engineering Journal, August 1992, pp. 167-176	☐
	35	WEITZEN, et al., "A High Speed Digital Modem for the Meteor Channel", Proceedings of the Seventeenth Annual Conference on Information Science and Systems, March 23-25, 1983.	☐
	36	WEITZEN, "Feasibility of high speed digital communications on the meteor scatter channel", University of Wisconsin, 1983	☐

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	37	WEST, "Data Concentration Method", IBM Technical Disclosure Bulletin, pp. 487-489	☐
	38	ZHANG, et al.: "An Integrated Voice/Data System for mobile indoor Radio Networks Using Multiple Transmission Rate", Global Telecommunications Conference. IEEE, Nov. 27-30, 1989, Dallas, TX, vol. 3, pages 1366-1370.	☐
	39	ITU-T V.22 bis, "DATA COMMUNICATION OVER THE TELEPHONE NETWORK: 2400 BITS PER SECOND DUPLEX MODEM USING THE FREQUENCY DIVISIONTECHNIQUE STANDARDIZED FOR USE ON THE GENERAL SWITCHED TELEPHONE NETWORK AND ON POINT-TO-POINT 2-WIRE LEASED TELEPHONE-TYPE CIRCU	☐
	40	ITU-T V. 32, "Data communication over the telephone network: A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for us eon the general switched telephone network and on leased telephone type circuits", V. 32March 1993	☐
	41	Partial Eurpopean Search Report - EP09158507, Search Authority - Mucnih Patent Office - 05-29-2009	☐

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